

# Laura Zannini

- Personal Data:** Date and place of birth: 09/27/1974, Milano  
Citizenship: Italian
- Education:** December 2013 **Qualification to the profession of biologist**  
July 2007 **PhD degree** at the Open University, Milton Keynes, UK  
Spons. Establish. Fondazione IRCCS Istituto Nazionale dei Tumori.  
May 1999 **Degree in Biological Sciences** at the Università degli Studi di Milano. Mark: 110/110
- Experience:** December 2016-present: **Researcher at Institute of Molecular Genetics Luigi Luca Cavalli-Sforza, National Research Council (IGM-CNR), Pavia**  
June 1999-December 2016: **PhD student, Post-Doc and PI at Fondazione IRCCS Istituto Nazionale dei Tumori (Milan).**  
January-March 2001: **PhD student at Laboratorio Nazionale C.I.B. (Area Science Park, Padriciano, Trieste)**
- Grants:** **Italian Association for Cancer Research (AIRC) – IG 2018**  
Title of the project: “TSPY-Like 2, a gender specific player in the DNA damage response.” Funding obtained: 504.000,00 euro  
**Italian Ministry of Health – Young Investigator Grant 2010**  
Title of the project: “Deleted in Breast Cancer 1, a new player in the DNA damage response.” Funding obtained: 371.200,00 euro
- Awards:** **Cover image** of the December 2014 issue of J. Mol. Cell Biol.  
**Young Investigator Award 2013** of the Fondazione IRCCS Istituto Nazionale dei Tumori

January 2001-December 2003 “**Triennial FIRC**” fellowship  
obtained by public competition

**Reviewer experience:** Reviewer for several scientific international journals like: Cellular Physiology and Biochemistry, Neoplasia, BMC geriatrics, BMC cancer, Carcinogenesis, Cancer Biology and Therapy, Nature Communications

**Publications:** *Magni M.,... and Zannini L.* TSPYL2 is a novel regulator of SIRT1 and p300 activity in response to DNA damage. **Cell Death and Differentiation.** 26(5):918-931 (2019)

*Magni M., Buscemi., Zannini L.* Cell cycle and apoptosis regulator 2 at the interface between DNA damage response and cell physiology. **Mutation research-Reviews in mutation research.** 776:1-9 (2018)

*Restelli M.,... and Zannini L.* A novel crosstalk between CCAR2 and AKT pathway in the regulation of cancer cell proliferation. **Cell Death & Disease** 7(11):e2453. doi: 10.1038/cddis.2016.359 (2016)

*Magni M.,... and Zannini L.* CCAR2/DBC1 is required for Chk2-dependent KAP1 phosphorylation and repair of DNA damage. **Oncotarget**, 6, 17817-31 (2015)

*Magni M.,... and Zannini L.* Chk2 and REG $\gamma$ -dependent DBC1 regulation in DNA damage induced apoptosis. **Nucleic Acids Res.**, 42, 13150-13160 (2014)

*Zannini L., et al.* Chk2 kinase in the DNA damage response and beyond. **J. Mol. Cell Biol.**, 6: 442-457 (2014)

Buscemi G., Ricci C., **Zannini L.**, Fontanella E., Plevani P., Delia D. Bimodal regulation of p21<sup>waf1</sup> protein as function of DNA damage levels. **Cell Cycle**, 13: 2901-2912 (2014)

**Zannini L.**, et al. DBC1 phosphorylation by ATM/ATR inhibits SIRT1 deacetylase in response to DNA damage. **J. Mol. Cell Biol.**, 4: 294-303 (2012).

Turinetto V, Porcedda P, Minieri V, Orlando L, Lantelme E, Accomasso L, Amoroso A, De Marchi M, **Zannini L.**, Delia D, Giachino C. A novel defect in mitochondrial p53 accumulation following DNA damage confers apoptosis resistance in Ataxia Telangiectasia and Nijmegen Breakage Syndrome T-cells. **DNA Repair**, 9:1200-1208 (2010).

**Zannini L.**, et al. REGgamma/PA28gamma proteasome activator interacts with PML and Chk2 and affects PML nuclear bodies number. **Cell Cycle**. 8:2399-407 (2009).

Buscemi G., **Zannini L.**, Fontanella E., Lecis D., Lisanti S., Delia D. The shelterin protein TRF2 inhibits Chk2 activity at telomeres in the absence of DNA damage. **Curr. Biol.** 19:874-9 (2009)

**Zannini L.**, et al. REG $\gamma$  proteasome activator is involved in the maintenance of chromosomal stability. **Cell Cycle**, 7:504-12 (2008).

Bruno T., De Nicola F., Iezzi S., Lecis D., D'Angelo C., Di Padova M., Corbi N., Dimiziani L., **Zannini L.**, Jekimovs C., Scarsella M., Porrello A., Chersi A., Crescenzi M., Leonetti C., Khanna K.K., Soddu S., Floridi A., Passananti C., Delia D. and Fanciulli M. Che-1 phosphorylation by ATM/ATR and Chk2 kinases activates p53 transcription and the G2/M checkpoint. **Cancer Cell**, 10:473-86 (2006).

*Buscemi G., Carlessi L., Zannini L., Lisanti S., Fontanella E., Canevari S. and Delia D.* DNA damage-induced cell cycle regulation and function of novel Chk2 phosphoresidues. **Mol. Cell. Biol.**, 26:7832-45 (2006).

*Caramuta S., De Cecco L., Reid J.F., Zannini L., Gariboldi M., Kjeldsen L., Pierotti M.A. and Delia D.* Regulation of lipocalin-2 gene by the cancer chemopreventive retinoid 4-HPR. **Int. J. Cancer**, 119:1599-606 (2006).

**Zannini L., et al.** Karyopherin-alpha2 protein interacts with Chk2 and contributes to its nuclear import. **J. Biol. Chem.**, 278: 42346-51 (2003).

*Oguchi K., Takagi M., Tsuchida R., Taya Y., Ito E., Isoyama K., Ishii E., Zannini L., Delia D. and Mizutani S.* Missense mutation and defective function of ATM in a childhood acute leukemia patient with MLL gene rearrangement. **Blood**, 101: 3622-7 (2003).

*Buscemi G, Savio C, Zannini L., Micciche F, Masnada D, Nakanishi M, Tauchi H, Komatsu K, Mizutani S, Khanna K, Chen P, Concannon P, Chessa L, Delia D.* Chk2 activation dependence on Nbs1 after DNA damage. **Mol. Cell. Biol.** 21(15): 5214-22 (2001)

*Biunno I, Bernard L, Dear P, Cattaneo M, Volorio S, Zannini L., Bankier A, Zollo M.* SEL1L, the human homolog of *C. elegans* sel-1: refined physical mapping, gene structure and identification of polymorphic markers. **Hum. Genet.** 106:227-35 (2000)

**Book chapters:** **Zannini L., Buscemi G.** “CHK2” for the **Encyclopedia of SignalingMolecules, 2nd Edition (Springer Nature)**. Edited by Prof. Sangdun Choi.

**Meetings:**

*ABCD meeting: From stress response to tissue development and regeneration.* 28-29 September 2018 Pavia, Italy. **Oral presentation.**

*Life Science 2018. 2<sup>nd</sup> joint annual symposium.* June 20-22 2018 Pavia, Italy. **Oral presentation.**

*PI3K-like protein kinases.* November 3-5 2015 Milan, Italy. Poster presentation.

*The 2015 IMB Conference: DNA Repair & Genome stability in a chromatin environment.* June 4-7 2015, Mainz, Germany. Poster presentation.

*The DNA damage response in cell physiology and disease.* October 7-11 2013, Cape Sounio, Greece. Poster presentation

*Nature-CNIO Conference, Oncogenes and human cancer: the next 25 years,* October 3-6 2007, Madrid, Spain. Poster presentation

*Cancer genetics and epigenetics. Gordon research conference.* May 20-25 2007, Il Ciocco, Lucca, Italy. Poster Presentation.

*The 2005 International Workshop on Ataxia-Telangiectasia, ATM and the DNA damage response.* June 8-11 2005, Hotel Villa Carlotta, Belgirate, Lago Maggiore, Italy. Poster presentation.

*Cell and molecular biology of cancer.* January 22-25 2003, Lausanne, Switzerland. Poster presentation.

*The cell cycle.* May 15-19 2002 Cold Spring Harbor Laboratory, New York, U.S.A. Poster presentation.

*International conference on basic and clinical aspects of cell cycle.* May 29-31 2000, Siena, Italy. **Oral presentation.**

I hereby express my consent to the treatment of personal data according to Italian law legislative decree

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